

## NISTTech

### DENTAL COMPOSITIONS WITH TITANIUM DIOXIDE NANOPARTICLES

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**NIST Docket 11-009, Publication No. US 2012-0172485 A1, Joint Invention with American Dental Association**

#### Abstract

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A polymeric composition comprising modified-TiO<sub>2</sub> nanoparticles, with or without a solvent, and polymeric precursors; wherein the modified TiO<sub>2</sub> nanoparticles comprise titanium dioxide nanoparticles modified with a short chain unsaturated compound comprising 2 to 10 carbon atoms. The polymeric composition may be used in dental composition such as dental adhesives, dental composites, and dental sealants.

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#### Inventors

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- Wu, Wen-Li

#### References

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- 11-009Application

#### Status of Availability

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